

LISTING OF CLAIMS:

1. (Currently Amended): A method of fabricating a fuel injector comprising:
 - providing a clean room;
 - fabricating a fuel group in the clean room, the fuel group including an inlet tube, with a filtering portion of a filter assembly being disposed in the inlet tube and a retaining portion of the filter assembly being disposed at an end of the inlet tube and being constructed and arranged to retain a seal member for sealing the fuel injector to a fuel source; the fuel group including having a generally constant outer diameter between a seat and an armature;
 - fabricating a power group exterior of the clean room;
 - inserting the fuel group into the power group; and
 - fixedly connecting the fuel group to the power group.
2. (Currently Amended): The method according to claim 1 6, further comprising, prior to inserting the fuel group into the power group, performing at least one fuel flow tests on the fuel group.
3. (Original): The method according to claim 2, wherein the at least one fuel flow tests are performed exterior of the clean room.
4. (Currently Amended): The method according to claim 1 6, wherein the inserting is performed exterior of the clean room.
5. (Original): The method according to claim 4, wherein the fixedly connecting is performed exterior of the clean room.
6. (Currently Amended): A method of fabricating a fuel injector comprising:
 - providing a clean room;
 - fabricating a fuel group in the clean room, the fuel group having a generally constant

~~outer diameter between a seat and an armature~~, and prior to fabricating the fuel group, assembling a fuel tube assembly of the fuel group, the fuel tube assembly including an inlet tube and a non-magnetic shell, the assembling including inserting a filtering portion of a filter assembly into the inlet tube, with a retaining portion of the filter assembly being disposed at an end of the inlet tube and being constructed and arranged to retain a seal member for sealing the fuel injector to a fuel source:

fabricating a power group exterior of the clean room;
inserting the fuel group into the power group; and
fixedly connecting the fuel group to the power group.

7. Canceled
8. (Currently Amended): The method according to claim 6 7, further comprising, after assembling the fuel tube assembly, performing a leak test on the fuel tube assembly.
9. (Currently Amended): The method according to claim 8, further comprising, after performing the leak test, washing the fuel tube assembly.
10. (Currently Amended): The method according to claim 9, further comprising, prior to washing the fuel tube assembly, placing the fuel tube assembly in the clean room.
11. (Currently Amended): The method according to claim 10, further comprising, after washing the fuel tube assembly, inserting the a filter portion into the fuel inlet tube assembly.
12. (Currently Amended): The method according to claim 6 11, further comprising, after installing the filter, inserting an armature into the fuel tube assembly.
13. (Previously Presented): The method according to claim 6, wherein inserting the fuel group into the power group is performed exterior of the clean room.

14. (Original): The method according to claim 13, wherein the non-magnetic shell is inserted into the power group prior to the inlet tube.

15. (Currently Amended): A method of fabricating a fuel injector comprising:

providing a clean room;

 fabricating a fuel group in the clean room, the fuel group including an inlet tube, with a filtering portion of a filter assembly being disposed in the inlet tube and a retaining portion of the filter assembly being disposed at an end of the inlet tube and being constructed and arranged to retain a seal member for sealing the fuel injector to a fuel source; the fuel group having a generally constant outer diameter between a seat and an armature;

 fabricating a power group exterior of the clean room, the fabricating the power group comprises:

 providing a magnetic housing;

 providing an electro-magnetic solenoid coil; and

 fixedly connecting the magnetic housing to the electro-magnetic solenoid coil;

 inserting the fuel group into the power group; and

 fixedly connecting the fuel group to the power group.

16. (Original): The method according to claim 15, wherein fabricating the power group further comprises fixedly connecting at least one electrical terminal to the electro-magnetic solenoid coil.

17. (Original): The method according to claim 16, wherein fabricating the power group further comprises forming a dielectric overmold over at least part of the magnetic housing, the electro-magnetic solenoid coil, and the at least one electrical terminal.

18. (Previously Presented): The method according to claim 6, wherein inserting the fuel group into the power group is performed exterior of the clean room.

19. (Original): The method according to claim 18, wherein the fixedly connecting is performed exterior of the clean room.

20. (Original): The method according to claim 19, wherein the fixedly connecting comprises welding the power group to the fuel group.

21. (Previously Presented): The method according to claim 6, wherein fabricating the power group comprises:

providing a magnetic housing;

providing an electro-magnetic solenoid coil; and

fixedly connecting the magnetic housing to the electro-magnetic solenoid coil.

22. (Previously Presented): The method according to claim 21, wherein fabricating the power group further comprises fixedly connecting at least one electrical terminal to the electromagnetic solenoid coil.

23. (Previously Presented): The method according to claim 22, wherein fabricating the power group further comprises forming a dielectric overmold over at least part of the magnetic housing, the electro-magnetic solenoid coil, and the at least one electrical terminal.

24. (Previously Presented): The method according to claim 21, wherein inserting the fuel group into the power group is performed exterior of the clean room.

25. (Currently Amended): The method according to claim 24, wherein the fixedly connecting of the fuel group to the power group is performed exterior of the clean room.

26. (Currently Amended): The method according to claim 25, wherein the ~~fixedly connecting comprises welding~~ the power group is welded to the fuel group.

27. (Previously Presented): The method according to claim 15, further comprising, prior to inserting the fuel group into the power group, performing at least one fuel flow tests on the fuel group.

28. (Previously Presented): The method according to claim 27, wherein the at least one fuel flow tests are performed exterior of the clean room.

29. Canceled

30. (Previously Presented): The method according to claim 29, wherein the fixedly connecting is performed exterior of the clean room.

31. (Currently Amended): The method according to claim 15, further comprising, prior to fabricating the fuel group, assembling a fuel tube, tube assembly, the fuel tube assembly including the an inlet tube and a non-magnetic shell.

32. Canceled

33. (Currently Amended): The method according to claim 32, further comprising, after assembling the fuel tube assembly, performing a leak test on the fuel tube assembly.

34. (Currently Amended): The method according to claim 33, further comprising, after performing the leak test, washing the fuel tube assembly.

35. (Currently Amended): The method according to claim 34, further comprising, prior to washing the fuel tube assembly, placing the fuel tube assembly in the clean room.

36. Canceled

37. Canceled

38. (Presented Previously): The method according to claim 15, wherein inserting the fuel group into the power group is performed exterior of the clean room.

39. (Previously Presented): The method according to claim 38, wherein the non-magnetic shell is inserted into the power group prior to the inlet tube.